

Apparatus and Method for Curved Screen Projection

ABSTRACT OF THE DISCLOSURE

This invention generally relates to apparatus and methods for recording and projecting images on curved screens in a manner that imparts to an audience a sense of immersion in the projected scene. The screen is usually a segment of a spherical dome, with a large portion of the segment located below the horizontal viewing line of an audience. During recording of the images, the camera lens longitudinal axis is maintained in a substantially horizontal orientation. During projection, the projector lens longitudinal axis is maintained in a substantially horizontal orientation, and the image is positioned on the screen by horizontal and/or vertical movement of the projector lens relative to the film. The image is projected to appear to the viewer to be in substantially the same position as it was to the camera lens during recording.